

An aerial photograph of Pittsburgh, Pennsylvania, showing the city skyline, the Allegheny River, and several yellow arch bridges. In the foreground, a red trolley is visible on a track. The Siemens logo is overlaid in the top left corner.

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Siemens Technology Solutions

The Technology Leader Making City Infrastructure Smarter

Transforming Cities

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...for the better through
sustainable technology



- Megatrends urbanization, climate change, globalization and demographic change will shape the future of cities.
- The need to improve the quality of life and economic competitiveness, cities have to become more resource-efficient and environmentally friendly.
- Technologies are major levers and base for further sustainable city development.
- Effective infrastructure contributes to economic prosperity, improving quality of life.

Transforming Cities

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- Cities need efficient buildings, a reliable power grid and capable mobility solutions.
- Complexity involved requires a holistic view and sustainable solutions for cities.
- Siemens has the portfolio, know-how, and consulting expertise to make cities more livable, competitive, and sustainable.
- Urban residents need clean air and potable water
- A safe and secure environment is needed

Current Situation in Many Cities

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- **City's Vertical Real Estate**
- **Street light poles becoming real estate for multiple city services**
 - **Photocell Lighting Controls**
 - **Intersection Cameras**
 - **AMI Collector/ Repeaters**
 - **Cellular**

Unique, Multi-Function Solution

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A completely integrated
technology platform,
installed in 30 seconds
and it generates revenue





- Revenue generation with up to 3 mobile carriers
- Last mile content delivery system / Fiber Optic Access
 - (Netflix, Time Warner, Comcast)
- City wide private or public Wi-Fi network
- Cyber Security
- GPS for asset management and digital location
- Audio streaming messaging system
- Path to a citywide micro cell system
- Wi-Fi Mesh Network
- 2048 bit Encryption
- GPS





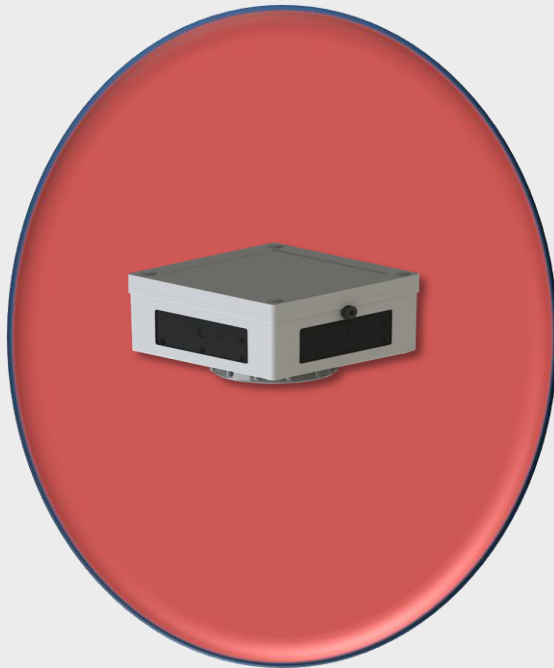
- Energy reduction with demand response
- External environmental sensors
- Lower energy consumption
- Data reporting on Air Quality
- Environmental monitoring
- Electric Vehicle charging
- Temperature monitor
- Chemical Detection
- Utility grade meter
- Seismic detection
- Lighting Control
- Sub-metering

Public Safety

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- Emergency response and situational awareness
- Individual patrolling and facial recognition
- Gunshot and vandalism detection
- Crowd detection and counting
- City wide Public Address
- Chemical detection
- 360° HD Video (28 day local recording)
- Emergency response full color LED
- Video watermarking
- HD Microphones / Public Address
- Lighting Control
- Seismic Detection



- **Only fully integrated networking solution with extensive features**
- **Solution is contained in a single package and mountable in 60 seconds**
- **No provisioning or setup is required**
- **Streetlight Controls**
 - ✓ Public Safety Cameras
 - ✓ Gun Shot technology
 - ✓ Graffiti Detection
 - ✓ Emergency Alert Notifications
 - ✓ Transportation Planning
- **Advanced Solutions**
 - ✓ City Wide Wifi+
 - ✓ Smart Metering - utility bill management
 - ✓ Telecommunication Opportunities
 - ✓ Open Data Management

Questions



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